



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

Address: C-186  
WASHINGTON, D.C. 20231  
OFFICE OF PATENTS AND TRADEMARKS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/749,486	11/15/96	SIMMERS	C 042390.P3581

E6M1/0429  
BLAKELY SOKOLOFF TAYLOR AND ZAFMAN  
12400 WILSHIRE BOULEVARD  
7TH FLOOR  
LOS ANGELES CA 90025

EXAMINER
----------

LEWIS, D

ART UNIT	PAPER NUMBER
----------	--------------

2609

DATE MAILED:

2  
04/29/97

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

08/749,486

Applicant(s)

Simmers

Examiner

David Lewis

Group Art Unit

2609



☐ Responsive to communication(s) filed on \_\_\_\_\_

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-13 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-13 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

**Title: Application of Split and Dual Screen LCD Panel Design in Cellular Phones**

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:  
  
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
  
2. **Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tagawa (5581274) in view of Tagawa (5534892), further in view of Peeajanen et al. (5189632), further in view of Imai et al. (D377341).**

As in claims 1-13, Tagawa teaches of an information device having a CPU, display controller and a display panel, said display panel split logically into sub-panels, Tagawa (892) figure 6, an apparatus comprising: a plurality of segment drivers coupled between said display panel and said display controller, said segment drivers receiving input data from said controller, said segment drivers translating said data into pixels displayable on said display panel; and a power control block coupled to said CPU and to said segment drivers to disable a first power source which powers down a first set of said segment drivers, said powering down

**Title: Application of Split and Dual Screen LCD Panel Design in Cellular Phones**

disabling a first set of sub-panels of said display panel from outputting pixels, said power control block disabling said first power source upon receiving a command from said CPU that said first set of sub-panels are to be powered down, **Tagawa (058) figures 8, 9, 46, and 49. Paajanen et al. teaches** of a display system wherein the inner surface of the body member 1 there is a display screen 3, **column 2 lines 29-40**, with an upper sub-panel display portion 3a. **Imai et al. teaches** of a portable communication terminal wherein the display is also found on the inner body member wherein a sub-panel portion of the display is seen through window on the outer body member, **figures 1-9**. The devices of Paajanen et al. and Imai et al. would have to have segmented displays to take advantage of their respective designs. When the outer bodies are closed displaying said sub-panels portions, power to the main display portion would be a waste of power consumption, which is limited for portable devices. **Therefore it would have been obvious** to one skilled in the art at the time of the invention to combine the segmented display panel of Tagawa with sub-panel display systems of Paajanen et al. and Imai et al. because there designs call for a segmented display system, which would power down a main display when not in use, **as in claims 1-13**.

Serial Number: 08/749,486  
Art Unit: 2609  
Applicant: Simmers

Page 4


**Title: Application of Split and Dual Screen LCD Panel Design in Cellular Phones**

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tagawa et al. (5410329), Usui (4816816), Miyagawa et al. (5268817), Williams (D374227), Happo et al. (D370673).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **David L. Lewis** whose telephone number is (703) 306-3026. The examiner can normally be reached on MT and THF from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. The fax phone number for this Group is (703) 308-5399. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.



**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
**GROUP 2600**

Examiner: David L. Lewis

April 14, 1997